

300BZ3

High-quality DC machine with excellent operability



See website for details



Panasonic GREEN IMPACT

1 Welding performance to achieve high-quality welding Precise control only achieved through full digital machines Sharp molten edges are being well-received

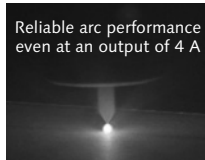
- Condition setting in units of 1 A ensures high-quality welding with no variations.
- Welding conditions tailored to workpieces can be reproduced.



↑ Lap fillet welding (welding w/o rod) of stainless steel(plate thickness: 0.5 mm)
(Pulse current: 50 A, Base current: 5 A, Speed: 30 cm/min)

2 Achieving a good arc start

- Arc start with nearly zero delay, even at an output of 4 A. An arc start with less burn through is now possible in the butt welding of 0.3 mm thick stainless steel. (Hot current is set to Low)
- Stable arc performance with good arc convergence and less wobble is achieved.
- Capable of welding thin to thick plates with a thick electrode rod (2.4 mm dia.).
- The use of the optional nozzle with a gas lens will further improve the bead appearance.



Reliable arc performance even at an output of 4 A

(Electrode: 2.4 mm, Angle: 30°
Base metal-electrode interval: 0.5 mm)

3 Handy and easy-to-use operation Welding Navigation facilitates the setting of welding conditions

- The database holds a total of 55 welding conditions.
- Automatically determined welding conditions can be changed as required. Original welding conditions can be created by storing the changed welding conditions (64 channels).



Welding process selection part Welding condition setting buttons Welding condition selection part



Specifications

Welding power source

Model number	YC-300BZ3	
Rated input voltage	V	200 to 220 AC (allowable fluctuation range: 180 to 242)
Number of phases, rated frequency	—	3-phase, 50/60 Hz
Rated input	—	11.5 kVA (10.2 kW)
Maximum open circuit voltage	V	69 DC
Rated duty cycle ^{*1}	%	40
Output current adjustment range	DC TIG	4 to 300
	DC manual welding	4 to 250
Control method	—	IGBT inverter type
Memory functions	—	64-channel storage and reproduction
Applicable welding process	—	DC TIG, DC manual welding
Applicable shielding gas	—	Ar: 100 %
Up-slope time	s	0.0 to 10.0
Down-slope time	s	0.0 to 10.0
Pre-flow time	s	0.0 to 10.0
Post-flow time	s	0.0 to 30.0
Arc spot time	s	0.1 to 5.0
Pulse frequency	Hz	0.8 to 500
Input power supply terminal	—	Terminal block (M5 bolt fixing)
Output terminal	—	Dinse terminal
External dimensions (width x depth x height)	mm	380×380×260
Mass	kg	19.5

*1: The duty cycle is based on JIS.
*With a 3 m long gas hose

Welding torches

Model number	Rated current (A)		Duty cycle (%) ^{*1}	Cable length (m)	Cooling method
	DC				
YT-20TS2TAG	200		35	4	Air-cooled
YT-20TS2TAH	200		35	8	Air-cooled
YT-30TS2TAG	300		20	4	Air-cooled
YT-30TS2TAH	300		20	8	Air-cooled
YT-30TSW2TAG	300		100	4	Water-cooled
YT-30TSW2TAH	300		100	8	Water-cooled

*1: The duty cycle is based on JIS.
*TAG/TAH: Dinse terminal type